

PATENT ABSTRACTS OF JAPAN

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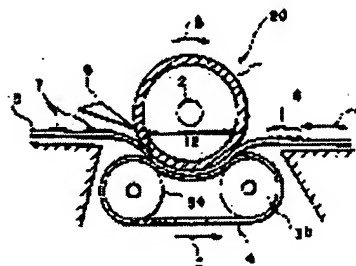
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(54) HEAT FIXING MECHANISM

(57)Abstract:

PURPOSE: To form a heat fixing mechanism which has small power consumption and a short initial waiting time by pressing a heat-resisting belt which is extended between ≥ 2 rotary rolls against a heat fixing roll and performing fixation between the heat fixing roll and heat-resisting roll.

CONSTITUTION: The heat-resisting belt 4 extended between ≥ 2 rolls 3 is pressed against the heat fixing roll 1 and a form 5 is sent between the heat-resisting belt 4 and heat fixing roll 1 to perform fixation. The width 12 of press contacting between the heat fixing roll 1 and heat-resisting belt 4 can be set much wider than a conventional fixing nip, so the time of contacting between a toner 6 to be fixed and the heat fixing roll 1 is made longer than that of a conventional heat fixing device when the paper feed speed is the same. Further, when the surface temperature of the heat fixing roll 1 is unchanged, the paper feed speed is increased.



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